SERVICE MANUAL

AM/FM STEREO AUTO REVERSE CASSETTE RECORDER

SANSUI FX-300R

(Red & Black Model)

CAUTION

1. Parts identified by the ⚠ symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

Sansui

SANSUI ELECTRIC CO., LTD.

• SPECIFICATIONS

Radio Section

Frequency

FM	88 ~ 108 MHz
AM	530 ~ 1,600 kHz

Tape Recorder Section

Track	4 track, stereo One side recording, auto reverse playback
Recording system	AC bias
Head	Erase x 1 Record/playback x 1
Motor	DC servo motor x 1
Speaker	Full range 6.5 cm x 2
Microphone	Electret condenser mic. x 1
Frequency range	
Metal (playback)	40 Hz ~ 12 kHz
Normal	60 Hz ~ 10 kHz
S/N ratio	50 dB
Input Jacks	MIXING MIC. x 1 AUX x 1
Output jacks	Speaker x 2 Headphones x 1
Battery life	
SUM-2	Approx. 4 hours (Playback mode with a volume control set to 4)
Power requirements	
DC	DC 6V "C" size battery x 4
AC	110 ~ 120V/220 ~ 240V, 50/60 Hz
(For U.S.A. and Canada	120V, 60Hz)
Power consumption	AC 7 watts
Dimensions	266(W) x 107(H) x 67(D) mm
Weight	1.3 kg

Accessories

AC adaptor	1

*** Design and specifications subject to changes without notice for improvements.**

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS and XX (EXPORT) on the parts list and the schematic diagram mean followings respectively.

   UL..... Manufactured for U.S.A market.
   (Underwriters Laboratories approved model.)
   CSA ..... Manufactured for Canadian market.
   SA..... Manufactured for South African market.
   BS, UK ..... Manufactured for United Kingdom market.
   EU ..... Manufactured for European market.
   AS..... Manufactured for Australian market.
   XX (EXPORT) ..... Standard Version.
   NON MARK ..... Common Parts.

2. Some printed circuit boards are not supplied as the assembled. To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.

3. Since some of capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.

1. ADJUSTMENT

A. Tape Circuit Adjustment

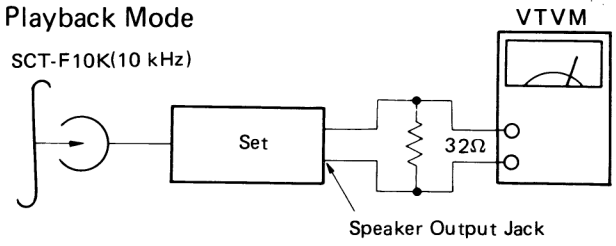
Before making adjustments or measurements, please be sure to clean the heads with a soft cloth etc. dampened with alcohol or carbon tetrachloride. Also demagnetize the heads and capstan with a degausser.

Notes concerning measurements

1. Since the voltage of each section changes according to the changes in input signal, please carry out voltage measurement without any signals applied.
2. Since transistor circuits are easily influence by minute voltages, use a VTVM with high internal resistance and high input sensitity in order to minimize measurement errors.
3. Unless otherwise specified, please set the tone control to "0" when performing adjustments or measurements.

1. Head Azimuth Adjustment

1. Remove the cassette case.
2. Set the TAPE selector switch to NORMAL and the FUNCTION switch to TAPE.
3. Reproduce the 10 kHz signal on the test tape SCT-10K and perform adjustment by rotating the azimuth adjustment screw so that the output voltage rises to maximum.
4. If there is a difference between L and R channel peak level, adjust head height until the output level from both channels is identical.
5. After adjustment, be sure to fix the adjustment screw with screw lock paint.



♦ List of Sansui Test Tape

Name of TEST TAPE	Recorded Frequency	Description	Equivalent To
SCT-F40	40 Hz	Playback Frequency Response Check	–
SCT-F1K	1 kHz	High Frequency Equalization Check	–
SCT-F10K	10 kHz	REC/PB Head Adjustment	–
SCT-L400N	400 Hz	Playback Level and Indicator Level Adjustment	–
SCT-S3K	3 kHz	Speed Check and Wow & Flutter Check	–
*SCT-AD (NORMAL)	–	–	TDK AD
*SCT-SA (HIGH)	–	–	TDK SA
*SCT-MA (METAL)	–	–	TDK MA

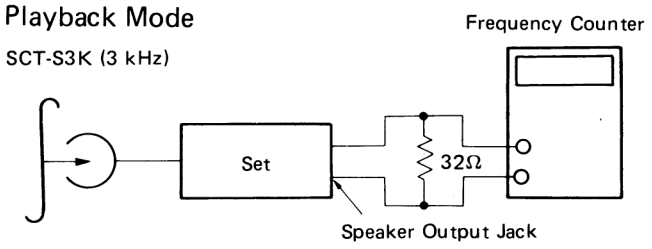
• **Note:** Some reference tapes marked * are not supplied. As these are equivalent to ones indicated above, please obtain these blank tapes on your side as possible.

2. Tape Speed Adjustment

Reproduce the 3 kHz signal on test tape SCT-S3K and adjust the semi-fixed adjustment resistor (RM04) in the motor so that the frequency counter reading is between 2960 and 3060.

Notes:

1. If the set was submitted to strong shock or vibrations after this adjustment was performed, please check to see whether there are no changes in tape speed. If there are nay deviations, please repeat the adjustment procedure.
2. If the input to the frequency counter is too low, the reading will not be correct. Please bear this in mind during measurement.
3. Please start adjustment procedures at least 30 seconds after the playback button was pressed.



♦ TAPE SELECTOR Position

NORMAL	
FUJI	FL, FX I
MAXELL	UL, UD, XL I, XL I-S
TDK	D, AD, OD
SCOTCH	TARTAN CRISTAL MASTER 120
SONY	AHF, BHF, CHF Low-Noise
AGFA	SUPER SUPER COLOR SUPER FERRO DYNAMIC
BASF	LN Super LH I

HIGH	
FUJI	FX II
MAXELL	XL II, XL II-S
TDK	SA, SA-X
SCOTCH	MASTER 70
SONY	JHF
AGFA	STEREO CHROM
BASF	SCR
METAL	
MAXELL	MX
TDK	MA-R, MA
SCOTCH	Metafine
SONY	METALLIC

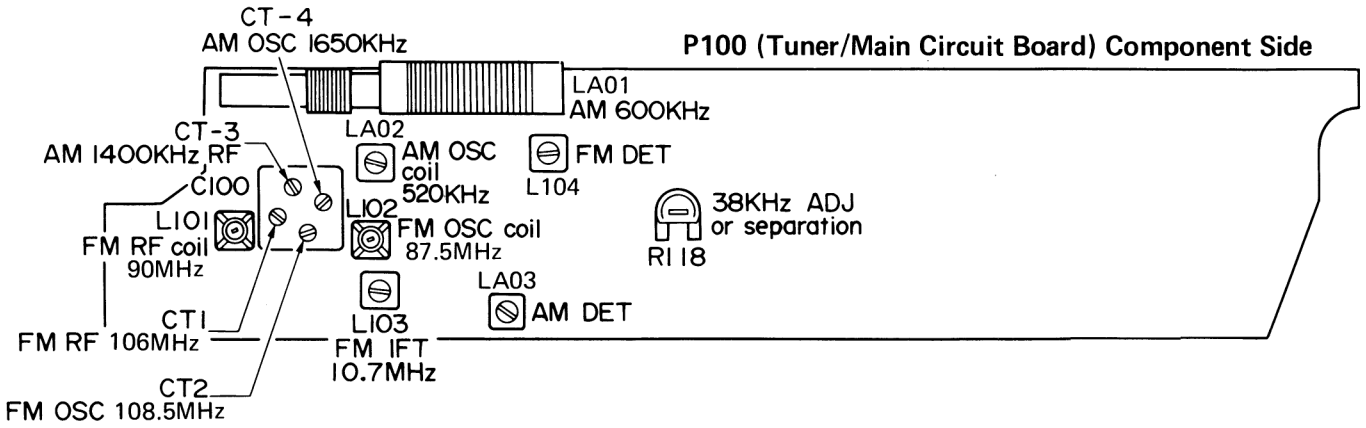
B. Tuner Adjustment

1. FM Alignment Procedures

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
FM IF Alignment					
1	Connect sweep generator to pin 6 of Q101 via 100 kΩ	10.7 MHz	Connect oscilloscope to the positive side of C126	Where no broadcast is received	Adjust L103 for maximum response. Adjust L104 for left-right symmetry
2	Adjust L103 and L104 repeatedly one after the other until adjustment is satisfactory				
FM RF Alignment					
1	Connect a 75Ω dummy to the signal oscillator's output and connect this to the antenna connection terminal	87.5 MHz	Connect VTVM to the speaker terminals	87.5 MHz	Adjust oscillator coil L102 so that output becomes maximum
2		108.5 MHz		108.5 MHz	Adjust trimmer CT-2 for maximum output
3		90 MHz		90 MHz	Adjust coil L101 for maximum output
4		106 MHz		106 MHz	Adjust trimmer CT-1 so that output becomes maximum
5	Repeat steps 1 to 4 until adjustment is satisfactory				
FM Stereo Alignment					
1	Connect a dummy antenna to the sweep generator's unmodulated output and connect this to the antenna connection terminal	98 MHz	Connect a high-impedance frequency counter to R302, R303 and ground	98 MHz	Adjust R303 so that the frequency counter reading shows 76 kHz

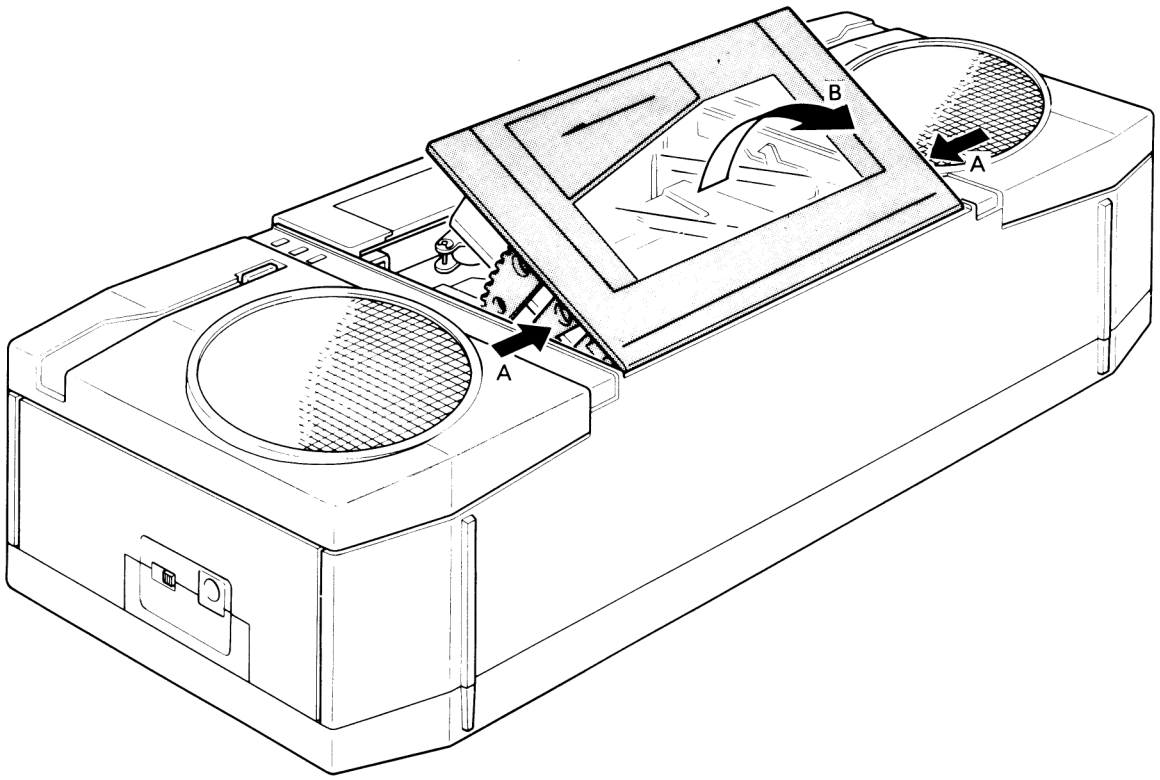
2. AM Alignment Procedures

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
AM IF Alignment					
1	Connect output of sweep generator to pin 1 of Q103 via 0.022μF	450 kHz	Connect oscilloscope to the positive side of C126	Where no broadcast is received	Adjust LA03 for left-right waveform symmetry with 450 kHz as center and for maximum
AM RF Alignment					
1	Radiate the signal oscillator output from the antenna	520 kHz	Connect VTVM to speaker terminals	520 kHz	Adjust oscillator coil LA02 for maximum output
2		1,650 kHz		1,650 kHz	Adjust trimmer CT-4 for maximum output
3	Radiate the signal oscillator output from the antenna	600 kHz		600 kHz	Adjust Ant Coil LA01 for maximum output
4		1,400 kHz		1,400 kHz	Adjust trimmer CT-3 so that output becomes maximum
5	Repeat steps 1 to 4 until adjustment is satisfactory				



2. CASSETTE HOLDER REMOVAL

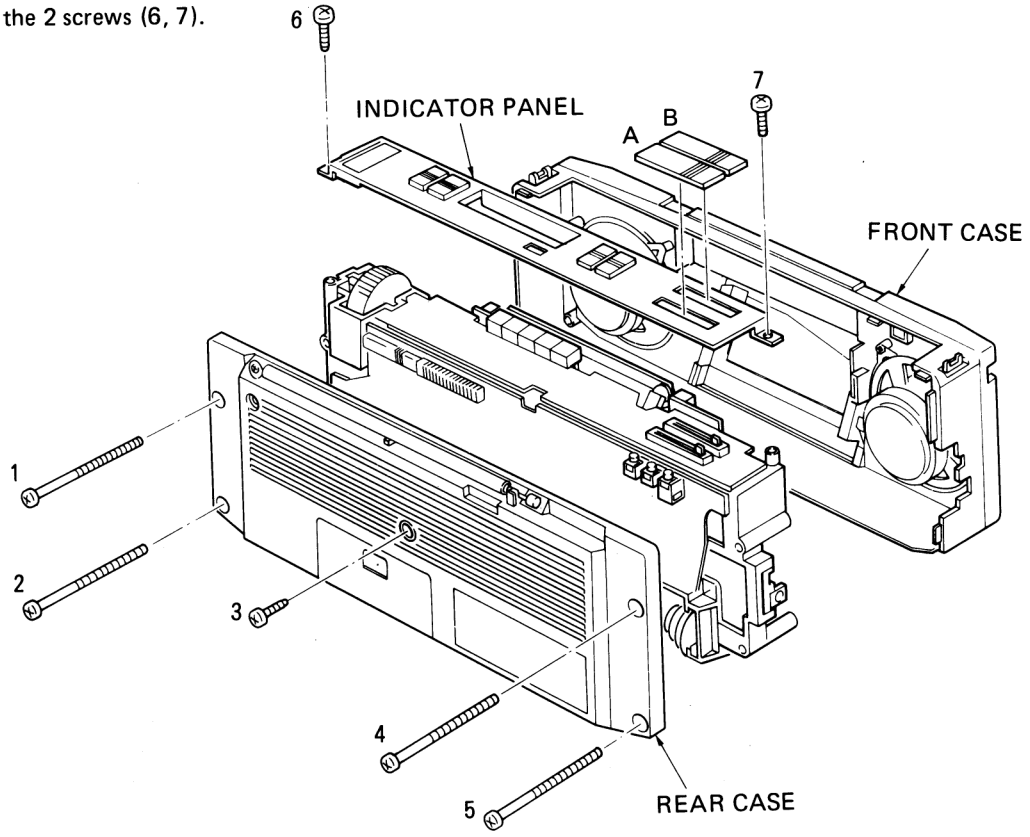
Depressing both the nails of cassette holder as arrow "A", and pull out the cassette holder in direction of arrow "B".



3. DISASSEMBLY INSTRUCTIONS AND DIAL CORD STRINGING GUIDE

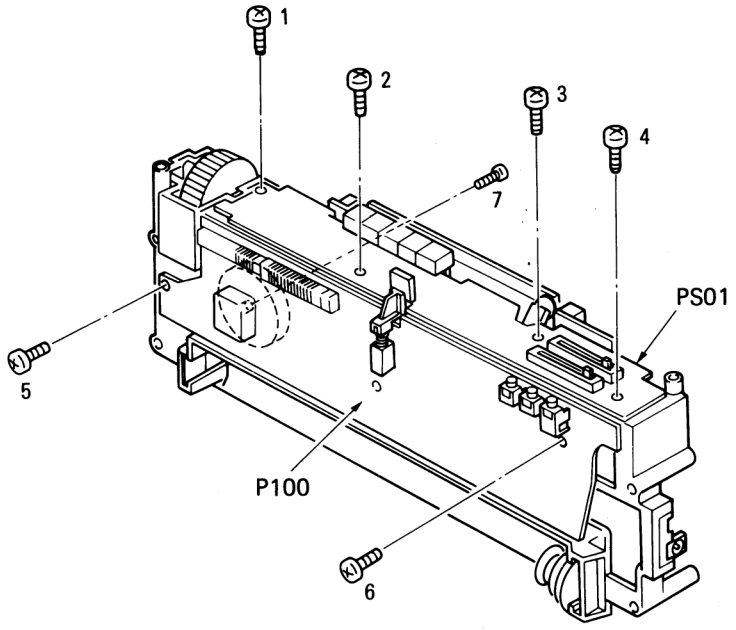
1. Front Case, Rear Case and Indicator Panel Removal

1) Remove the 5 screws (1 ~ 5).
2) Remove the front case and the rear case.
3) Pull out the 2 knobs (A, B).
4) Remove the 2 screws (6, 7).



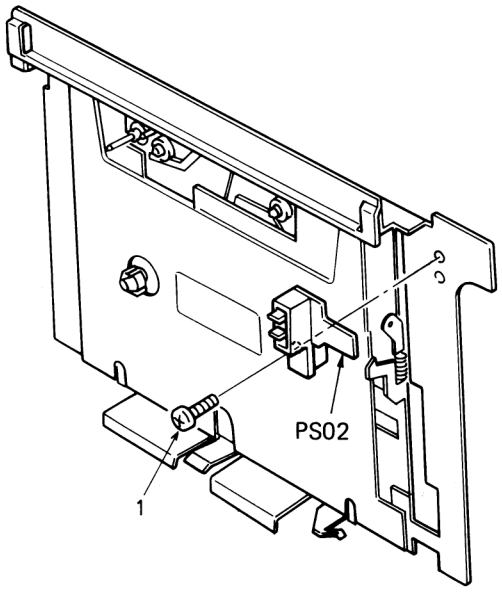
2. P.C.Boards(P100 & PS01)Removal

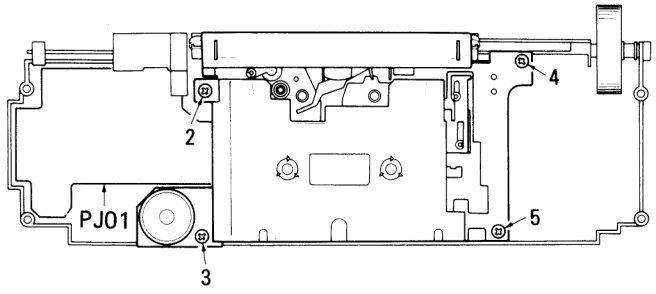
1) Remove the front case, the rear case and the indicator panel.
2) Remove the 7 screws (1 ~ 7).

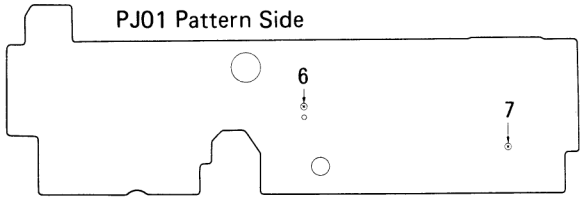


3. Mechanism and P.C.Board(PJ01)Removal

1) Remove the front case, the rear case and the indicator panel.
2) Remove the screw (1).
3) Remove the P.C. Board (PS02).
4) Remove the 6 screws (2 ~ 7).

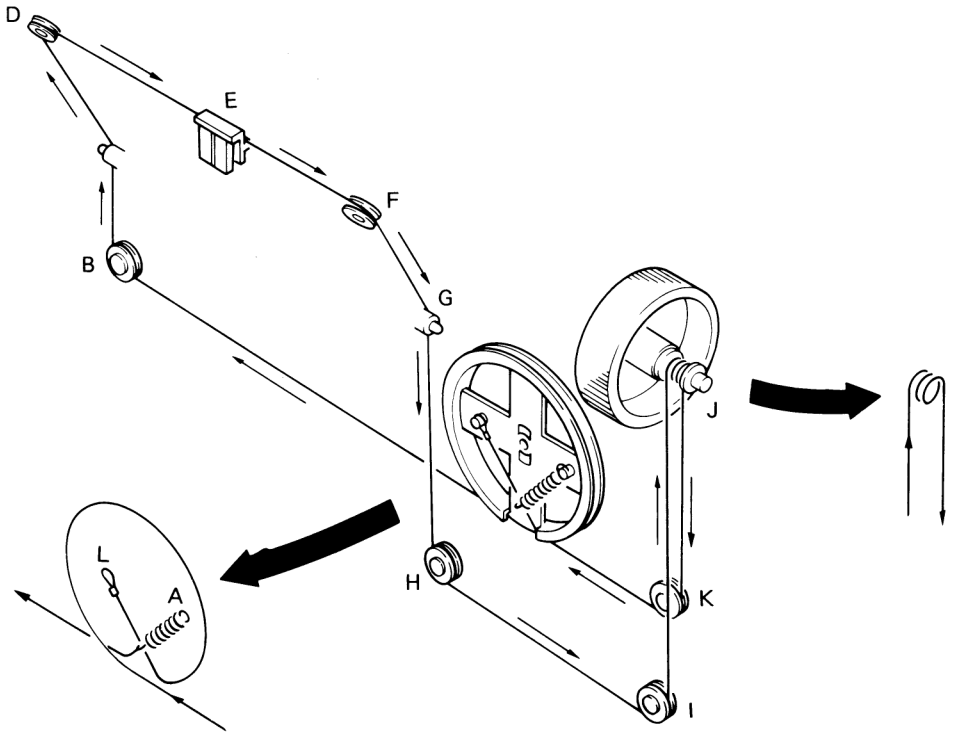






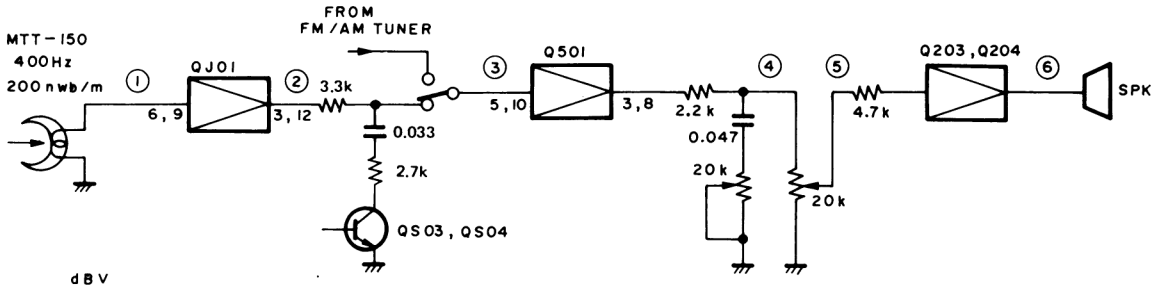
4. Dial Cord Stringing Guide

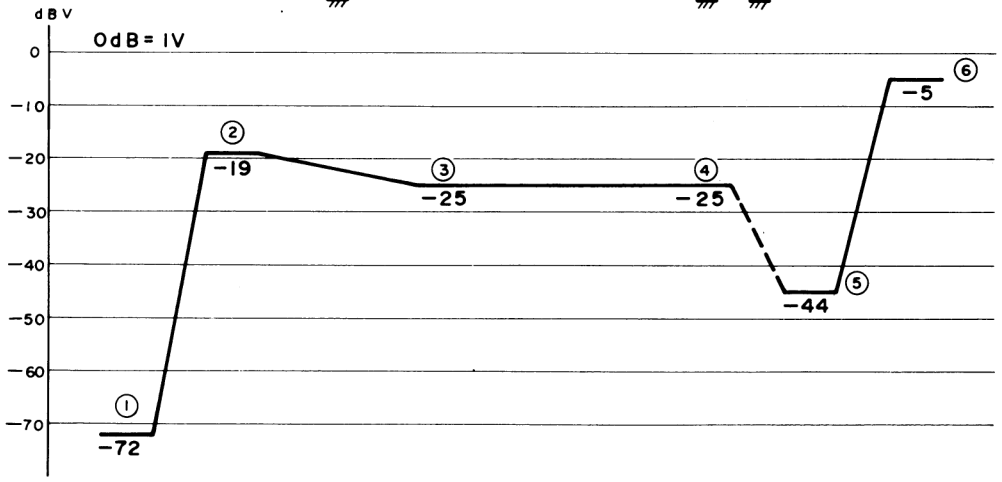
Reffering to the illustration, follow the step in the order A to L.



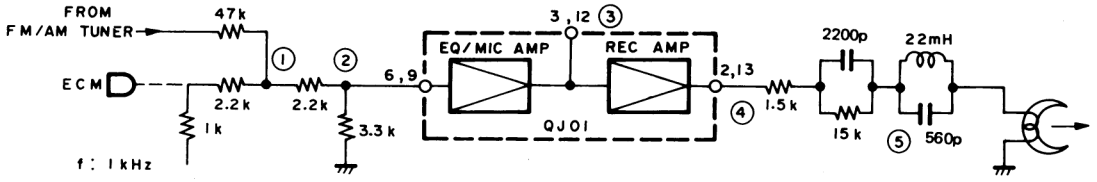
4. LEVEL DIAGRAM

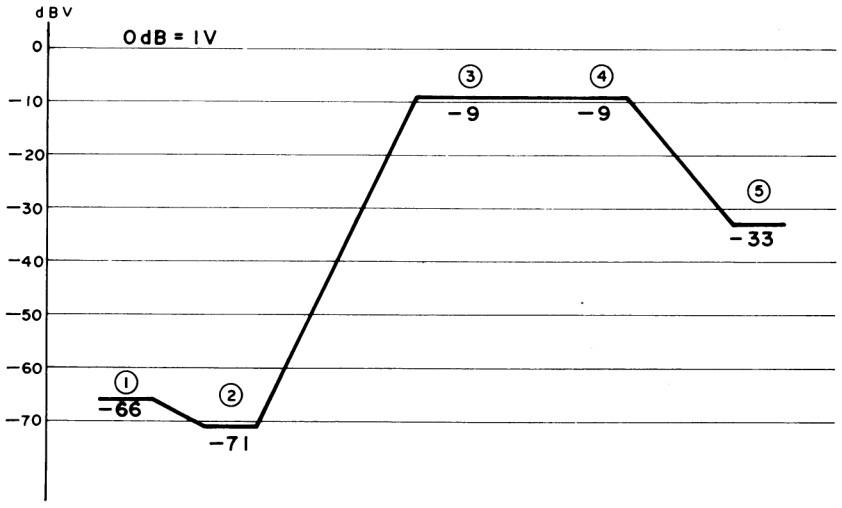
[PLAYBACK MODE]





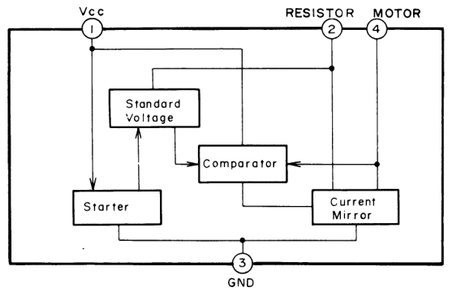
[RECORDING MODE]



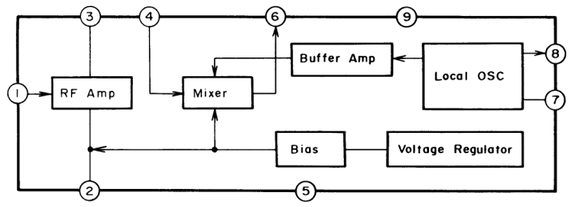


5. INTERIOR BLOCK DIAGRAM OF IC

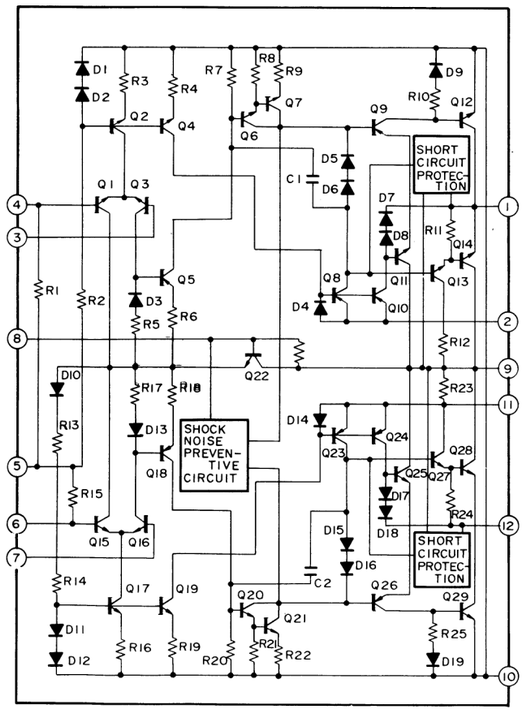
• μPC1470H (DC Motor Control)



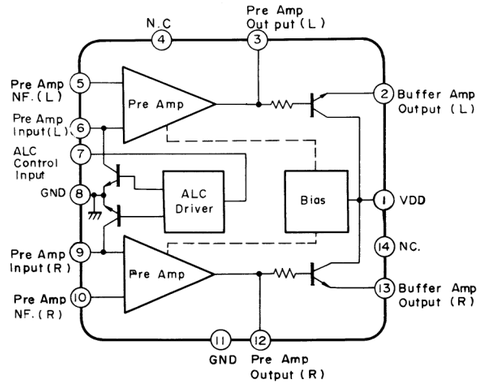
• TA7358P (FM Front End)



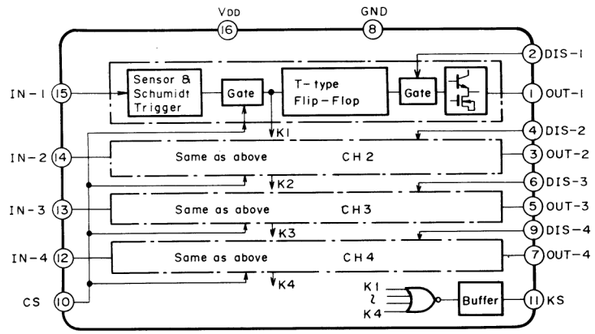
• μPC1177H-L (Audio Power Amp)



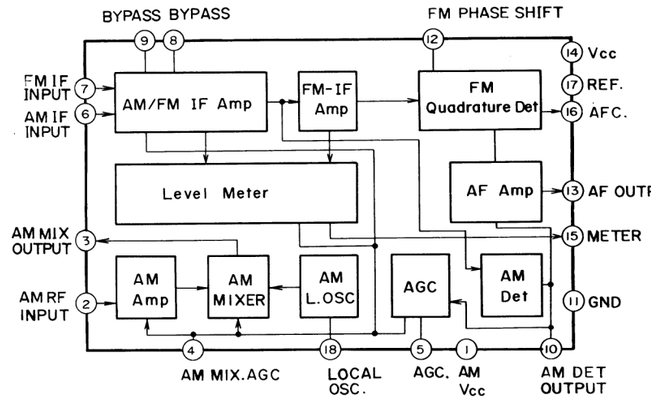
• TA7658P (Dual Pre Amp)



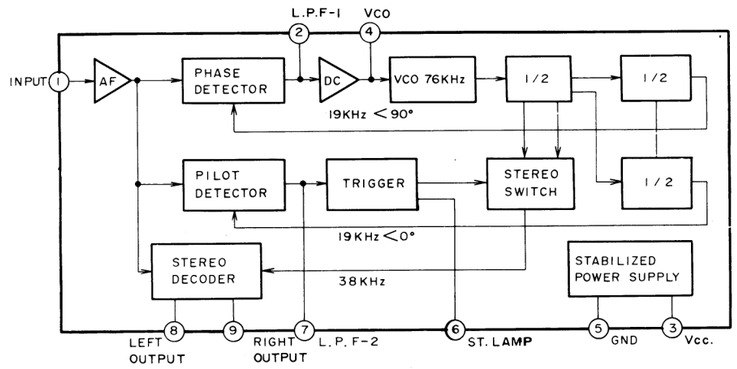
• TC9130P (Touch Switch Control)



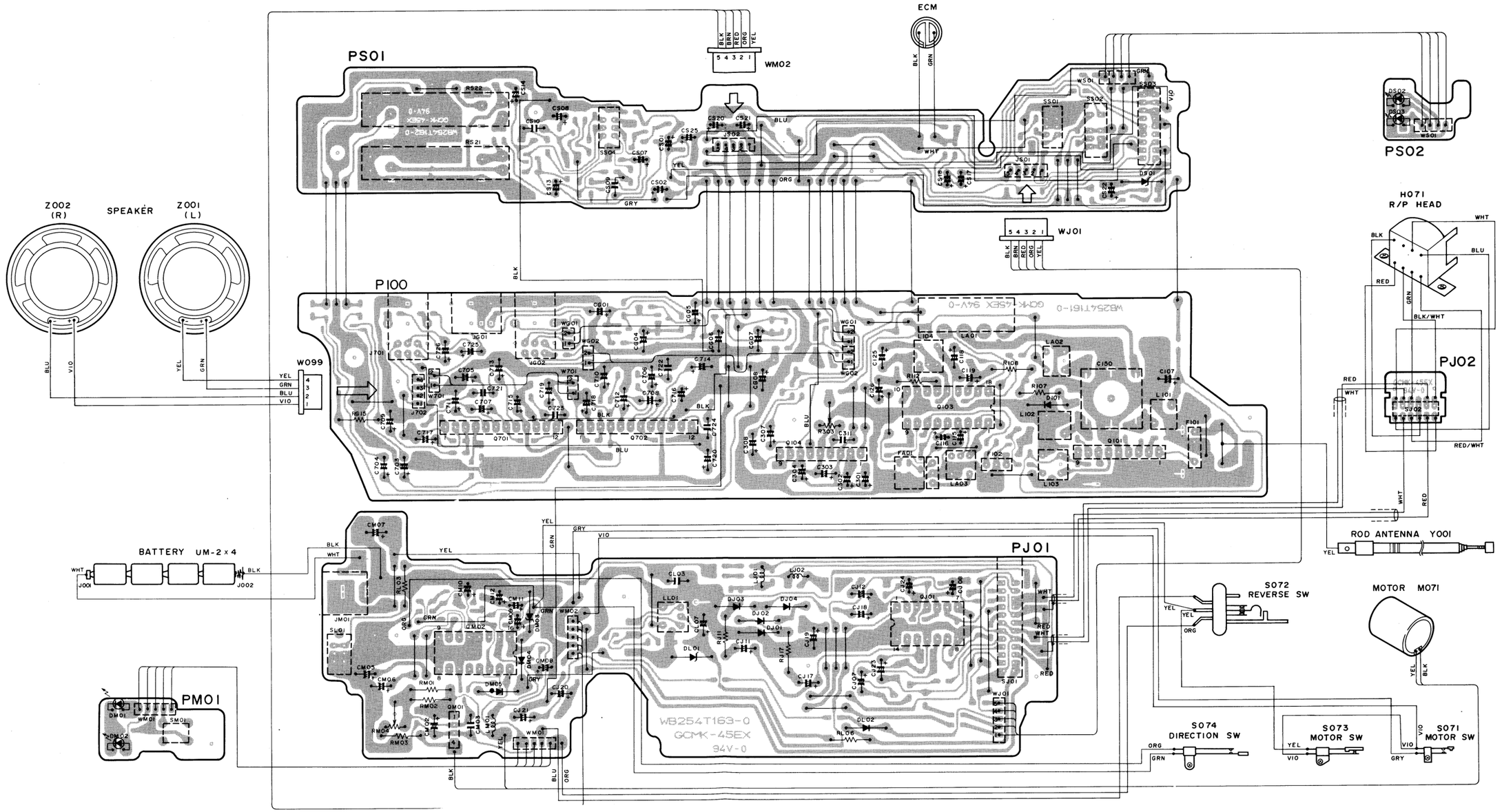
• AN7224 (AM/FM IF Amp)



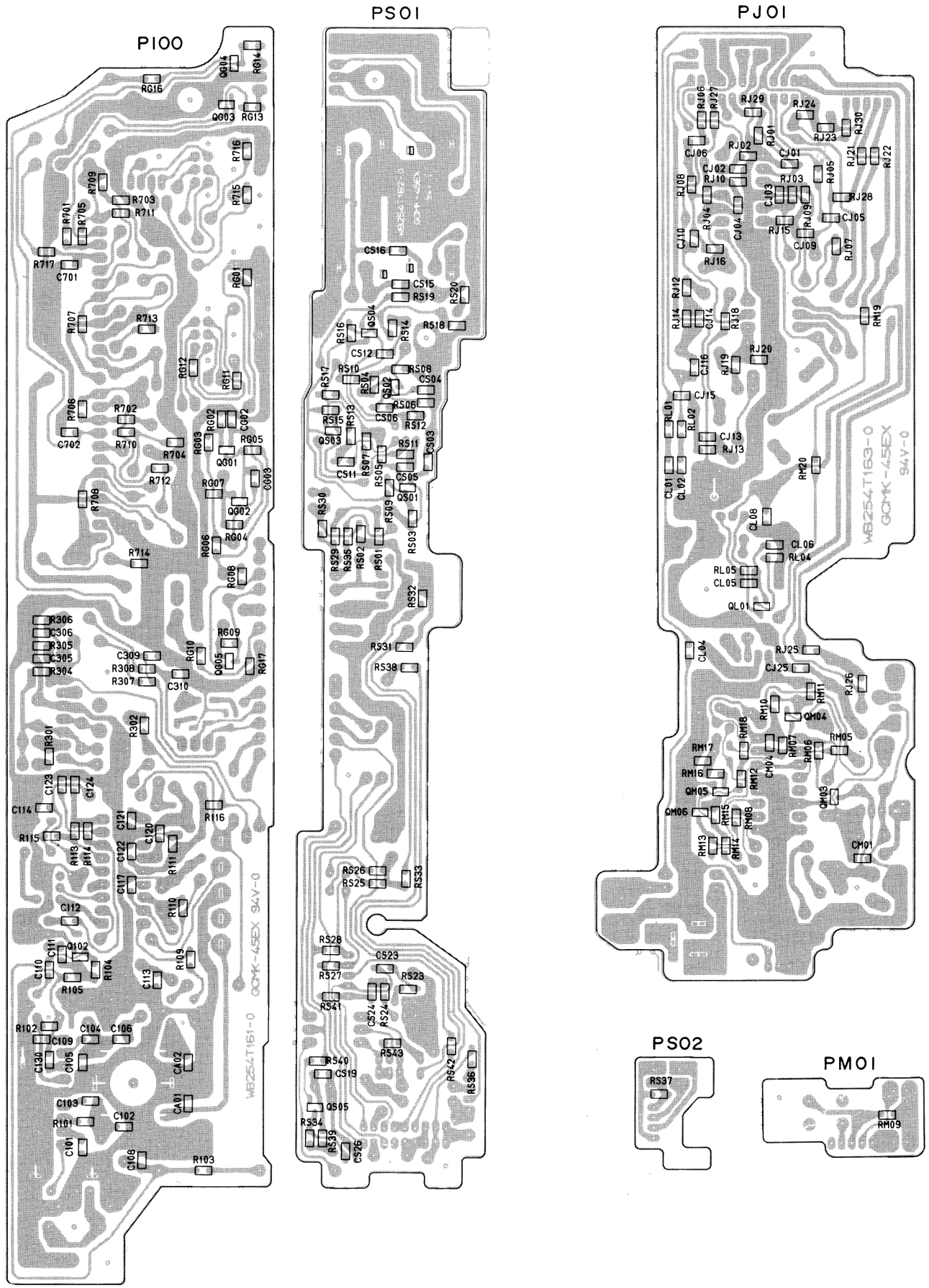
• TA7343P (PLL FM Stereo MPX)



6. WIRING DIAGRAM



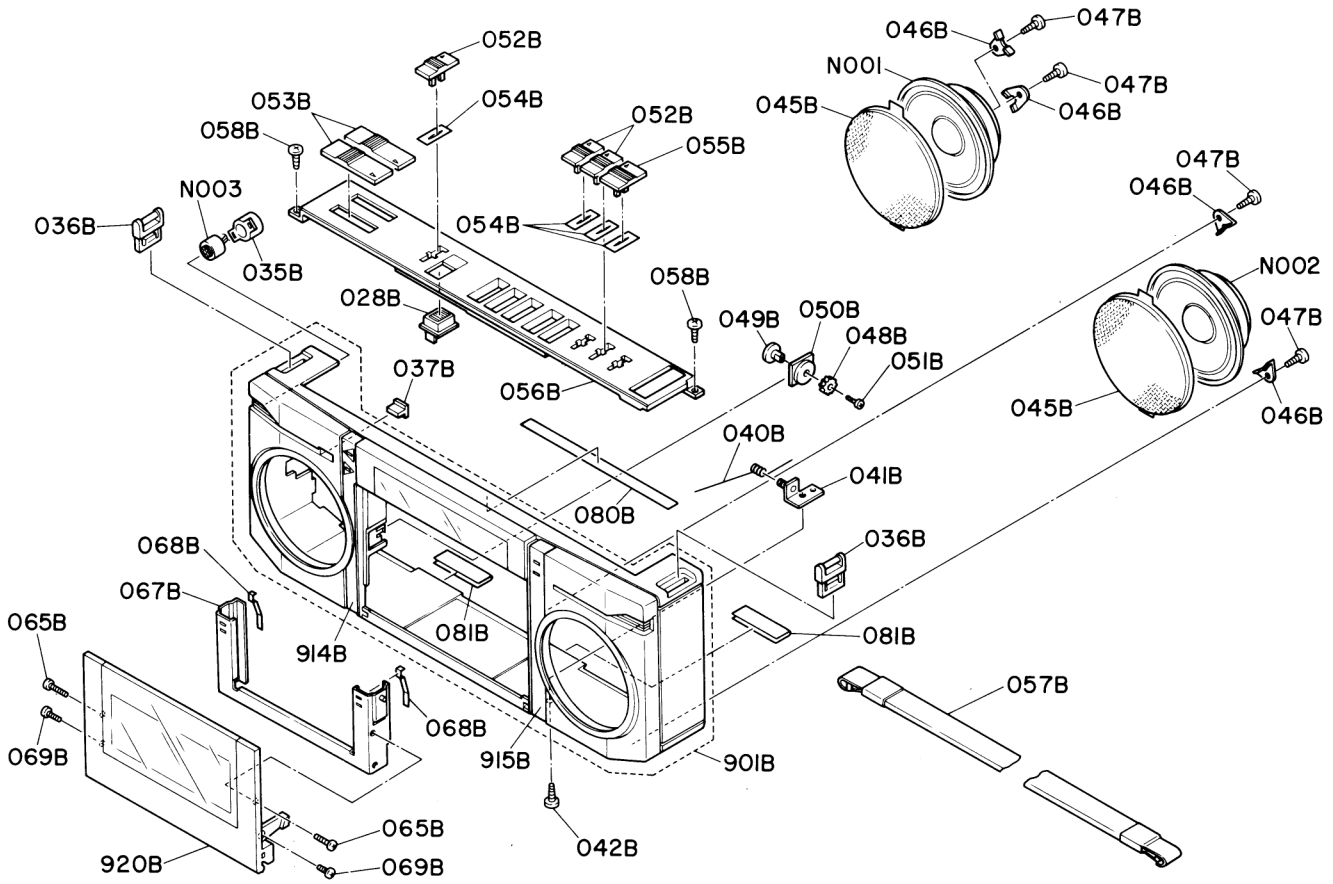
7. CHIP PARTS LOCATION



8. EXPLODED VIEW AND PARTS LIST

8-1. FRONT PANEL

- Though every part included in mechanism ass'y is numbered in exploded view, part unlisted in the parts list are not supplied.

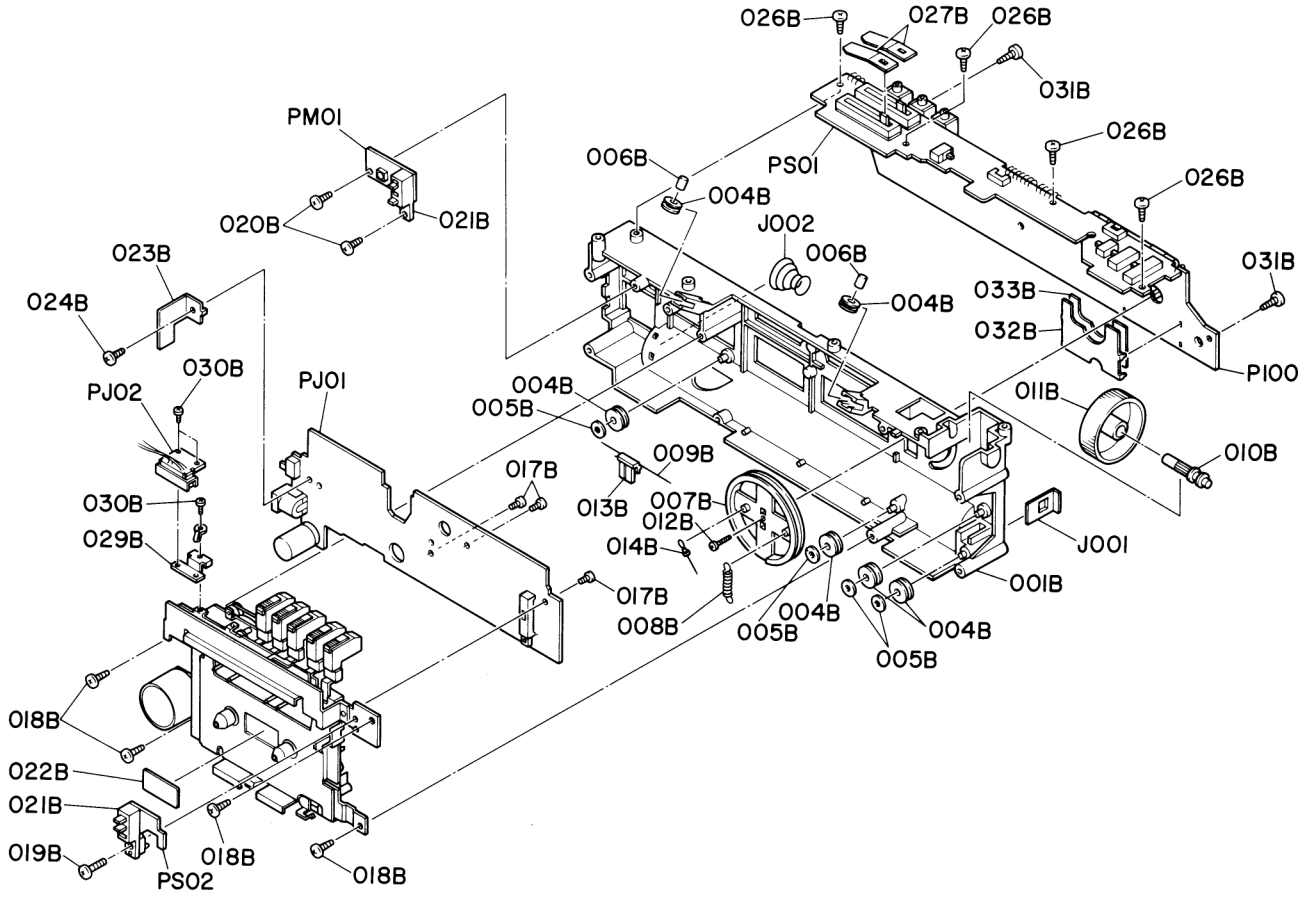


Parts List

PARTS NO.	STOCK NO.	DESCRIPTION	
028B	36665100	254T270120	Button, Direction
035B	36643300	251T271020	Holder, Mic
036B	36643400	251T271030	Holder, Strap
037B	36643100	251T270030	Button, Pause
040B	36641900	251T115020	Spring
041B	36641400	251T104010	Retainer
042B	00424700	51102604S0	B.H.M. Screw B2.6 x 4
045B	36643000	251T202010	Speaker Net
046B	36640000	1169005010	Speaker Clamper
047B	00418600	51280308B0	B.H. Tapped Screw B3 x 8
048B	36641200	251T058010	Gear
049B	36643700	251T359010	Rotor
050B	36641000	251T053030	Cover
051B	36677100	51100203A0	B.H.M. Screw B2 x 3
052B	36642600	251T154350	Knob (Black)
052B	36642200	251T154120	Knob (Red)
053B	36642700	251T154360	Knob, Volume/Tone (Black)
053B	36642400	251T154140	Knob, Volume/Tone (Red)
054B	36641100	251T056010	Buffer
055B	36642500	251T154330	Knob, Power (Black)
055B	36642300	251T154130	Knob, Power (Red)
056B	36668300	256T265010	Indicator (Black)
056B	36668400	256T265020	Indicator (Red)
057B	36642800	251T156010	Handle Strap
058B	00418600	51280308B0	B.H. Tapped Screw B3 x 8
065B	00424100	51100208S0	B.H.M. Screw B2 x 8
067B	36643200	251T271010	Cassette Holder
068B	36641800	251T115010	Spring
069B	00423900	5110020480	B.H.M. Screw B2 x 4
080B	———	251T107010	Sheet

PARTS NO.	STOCK NO.	DESCRIPTION	
081B	———	251T107020	Sheet
901B	36667700	256T248510	Front Panel Ass'y (Black)
901B	36667800	256T248520	Front Panel Ass'y (Red)
914B	36667300	256T063030	Escutcheon (Black)
914B	36667500	256T063070	Escutcheon (Red)
915B	36667400	256T063040	Escutcheon (Black)
915B	36667600	256T063080	Escutcheon (Red)
920B	36667100	256T053510	Cassette Cover Ass'y (Black)
920B	36667200	256T053520	Cassette Cover Ass'y (Red)
N001	36628000	QK00658010	Speaker
N002	36628000	QK00658010	Speaker
N003	36627300	MS50090100	Mic Unit

8-2. MAIN CHASSIS AND GENERAL PARTS

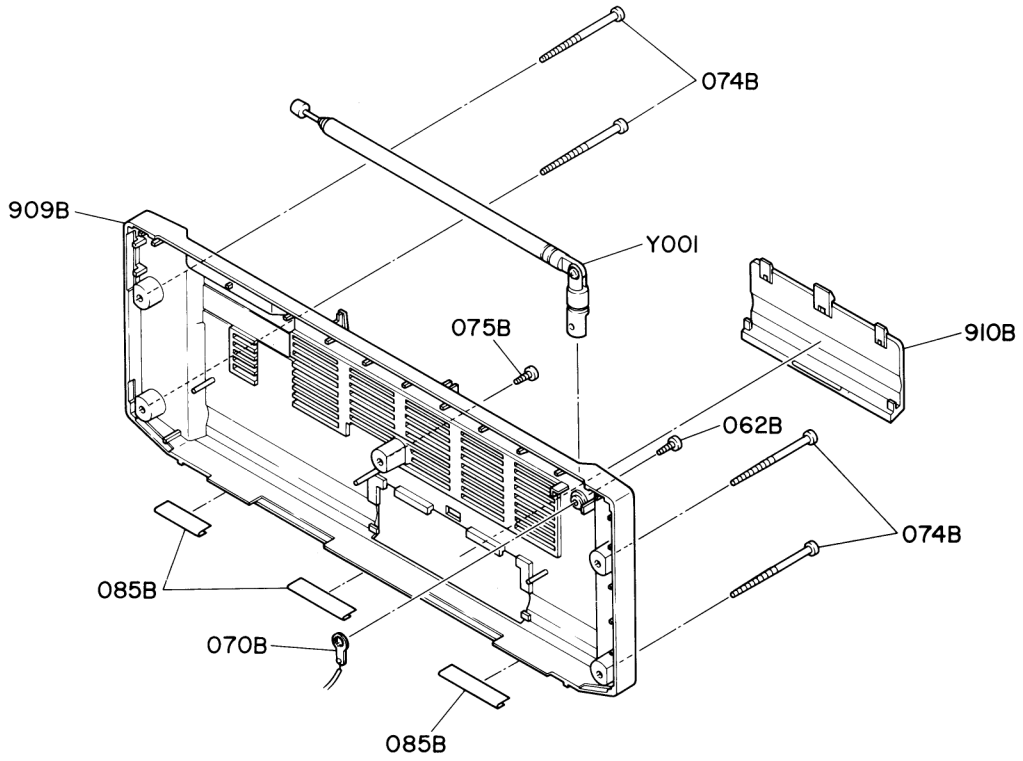


Parts List

PARTS NO.	STOCK NO.	DESCRIPTION	
001B	36641500	251T105010	Main Chassis
004B	36640100	1271262010	Pulley, Dial
005B	36679700	54020301A0	Flat Washer, P
006B	36641700	251T112020	Shaft, Dial Pulley
007B	36642900	251T159010	Drum, Dial
008B	36681600	71101569M0	Spring
010B	36641600	251T112010	Shaft, Dial
011B	36642000	251T154010	Knob, Dial
012B	36679100	51821785B0	P.H.M. Screw P1.7 x 8.5
013B	36641300	251T103010	Dial Pointer
014B	36680300	56302030G0	Eyelet
017B	36679000	51821703B0	P.H.M. Screw P1.7 x 3
018B	36677400	51280308U0	B.H. Tapped Screw B3 x 8
019B	00421500	51102610A0	B.H.M. Screw B2.6 x 10
020B	36677700	51282606B0	B.H. Tapped Screw B2.6 x 6
021B	36643500	251T271040	Holder, LED
022B	36668700	256T861010	Label
023B	———	254T160070	Bracket, AC Connector
024B	36677800	51282608B0	B.H. Tapped Screw B2.6 x 8
026B	36677700	51282606B0	B.H. Tapped Screw B2.6 x 6

PARTS NO.	STOCK NO.	DESCRIPTION	
027B	36640900	251T053020	Cover, Volume
029B	———	254T160060	Bracket, P.C. Board
030B	36679000	51821703B0	P.H.M. Screw P1.7 x 3
031B	36677700	51282606B0	B.H. Tapped Screw B2.6 x 6
032B	———	256T109010	Shield
033B	———	256T120010	Insulator
J001	36637300	YL12010660	Battery Terminal (+)
J002	36637100	YL11010090	Battery Terminal (-)

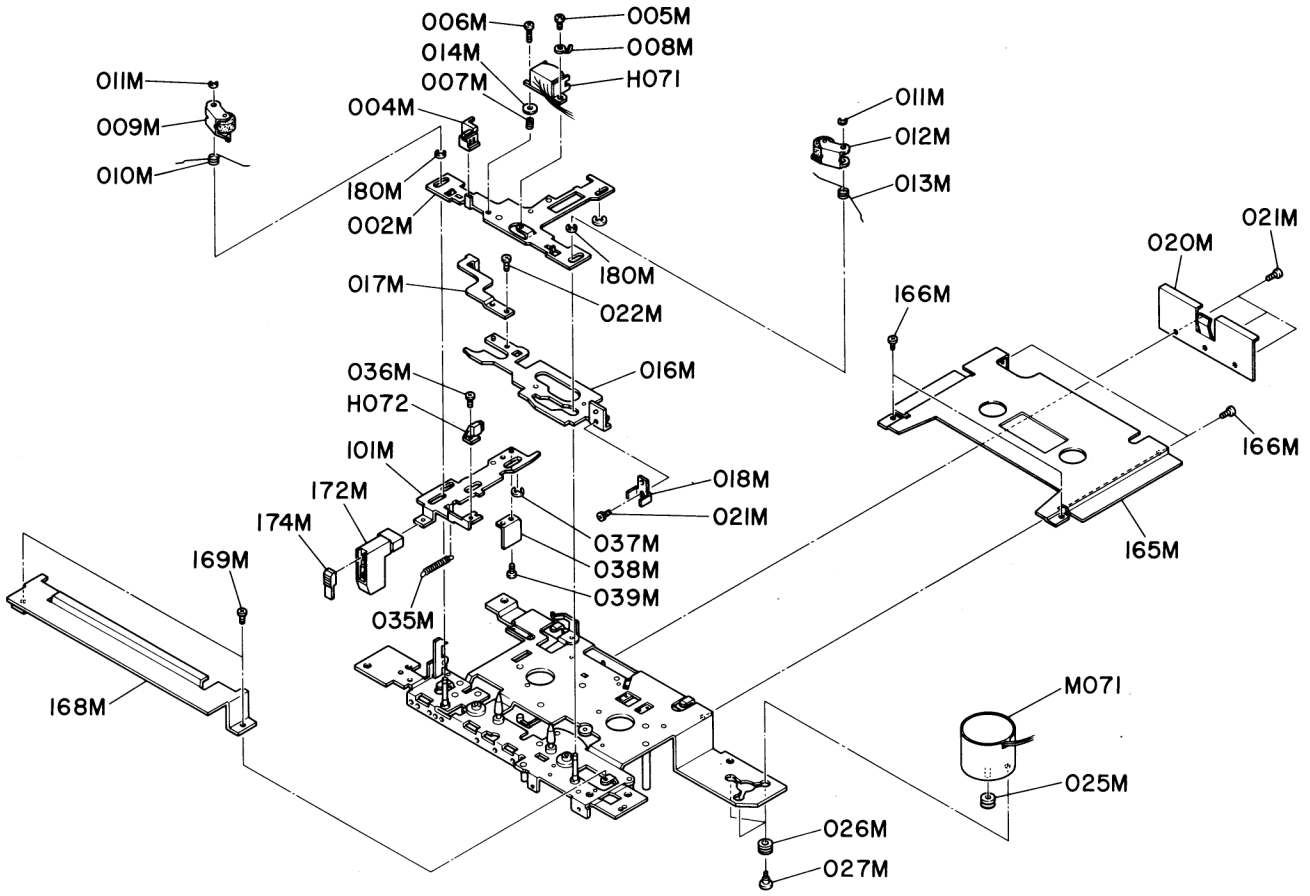
8-3. REAR CASE



Parts List

PARTS NO.	STOCK NO.	DESCRIPTION		PARTS NO.	STOCK NO.	DESCRIPTION	
062B	00425600	51100310S0	B.H.M. Screw B3 x 10	Y001	36637500	YR05055050	Whip Antenna
070B	36680900	62030039W0	Lug				
074B	36677600	51280340U0	B.H. Tapped Screw B3 x 4				
075B	36677500	51280310U0	B.H. Tapped Screw B3 x 10				
085B	———	152T107020	Sheet				
909B	36667900	256T250010	Rear Panel (Black)				
909B	36668000	256T250020	Rear Panel (Red)				
910B	36668100	256T257010	Battery Lid (Black)				
910B	36668200	256T257020	Battery Lid (Red)				

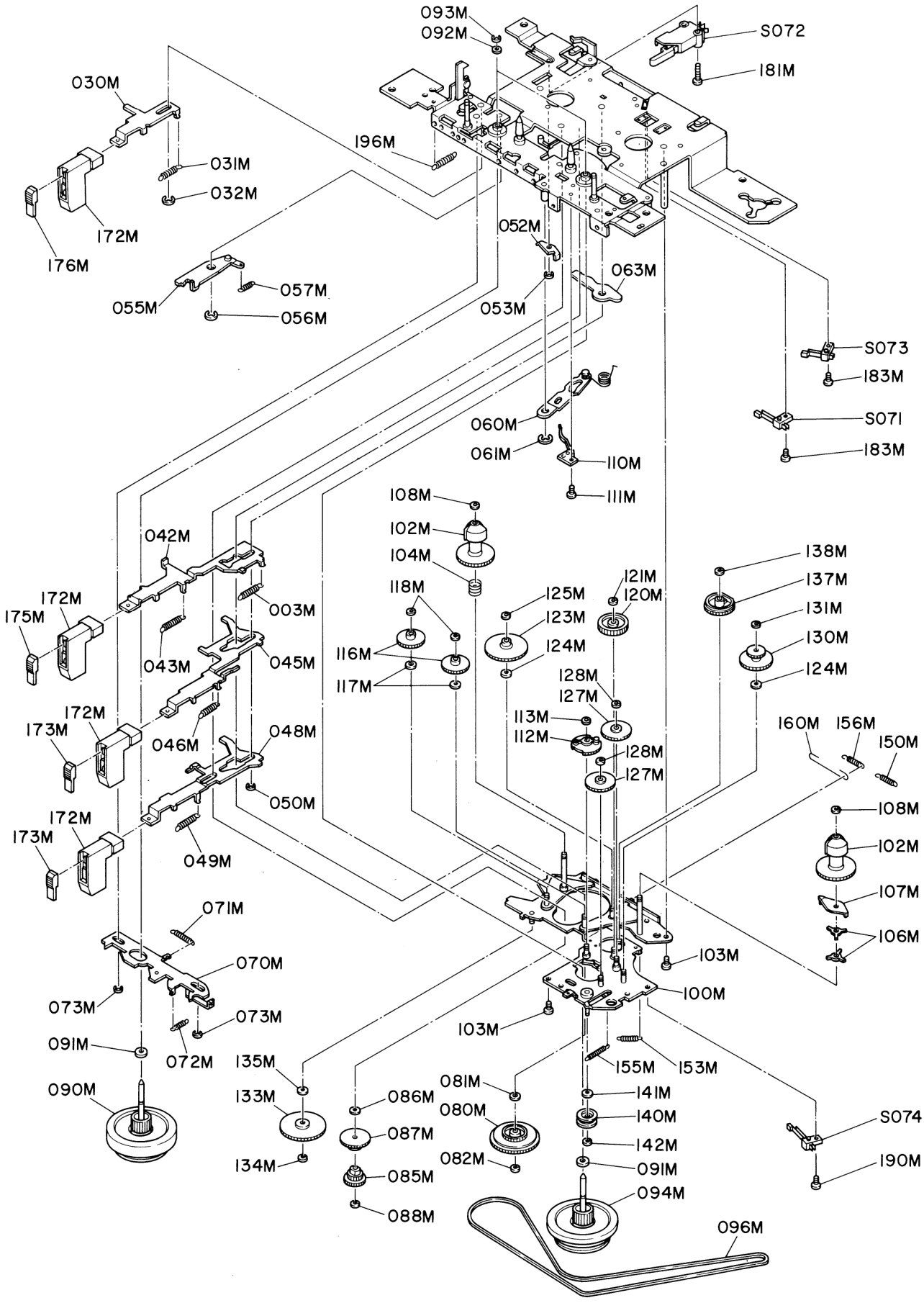
8-4. PARTS ASSEMBLED ON THE FRONT OF CHASSIS



Parts List

PARTS NO.	STOCK NO.	DESCRIPTION		PARTS NO.	STOCK NO.	DESCRIPTION	
002M	36662300	254T105210	Head Chassis	036M	36660000	254T010230	Screw M1.7 x 2.5
004M	36660800	254T051200	Tape Guide	037M	00489200	64000300R0	RG Ring, E
005M	36660300	254T010260	Screw M2 x 2	038M	36664000	254T116010	Leaf Spring
006M	36660400	254T010270	Screw, Azimuth M2 x 4	039M	36659700	254T010200	Screw M1.7 x 2
007M	36662600	254T115210	Spring, Azimuth	101M	36684000	305H354090	Lever, Direction
008M	36685600	251T00511R	Clamper	165M	36660900	254T053010	Cover
009M	36659100	254T002200	Pinch Roller Ass'y (R)	166M	36659700	254T010200	Screw M1.7 x 2
010M	36662700	254T115220	Spring, Pinch Roller	168M	36660700	254T051010	Pointer Guide
011M	00488900	64001500R0	RG Ring, E	169M	36659800	254T010210	Screw M2 x 3
012M	36659200	254T002210	Pinch Roller Ass'y (F)	172M	36665000	254T270010	Button
013M	36662800	254T115230	Spring, Pinch Roller	174M	36665500	254T301060	Mark
014M	36685700	54020201S0	Washer	180M	36681500	64002500R0	RG Ring, E
016M	36665800	254T354020	Lever, FWD/REVS SW				
017M	36664100	254T116020	Leaf Spring	H071	36626000	LH44102010	Rec/Play Head
018M	36665900	254T354210	Lever, FWD/REVS Sensor	H072	36625800	LH3100067R	Erase Head
020M	36664200	254T116210	Leaf Spring				
021M	36659700	254T010200	Screw M1.7 x 2	⚠ M071	36626800	MM00600070	DC Motor 2200RPM
022M	36659700	254T010200	Screw M1.7 x 2				
025M	36664700	254T262200	Pulley, Motor				
026M	36664600	254T259200	Bushing, Motor				
027M	36660200	254T010250	Screw				
035M	36663000	254T115250	Spring, REC Lever				

8-5. PARTS ASSEMBLED ON THE REAR OF CHASSIS

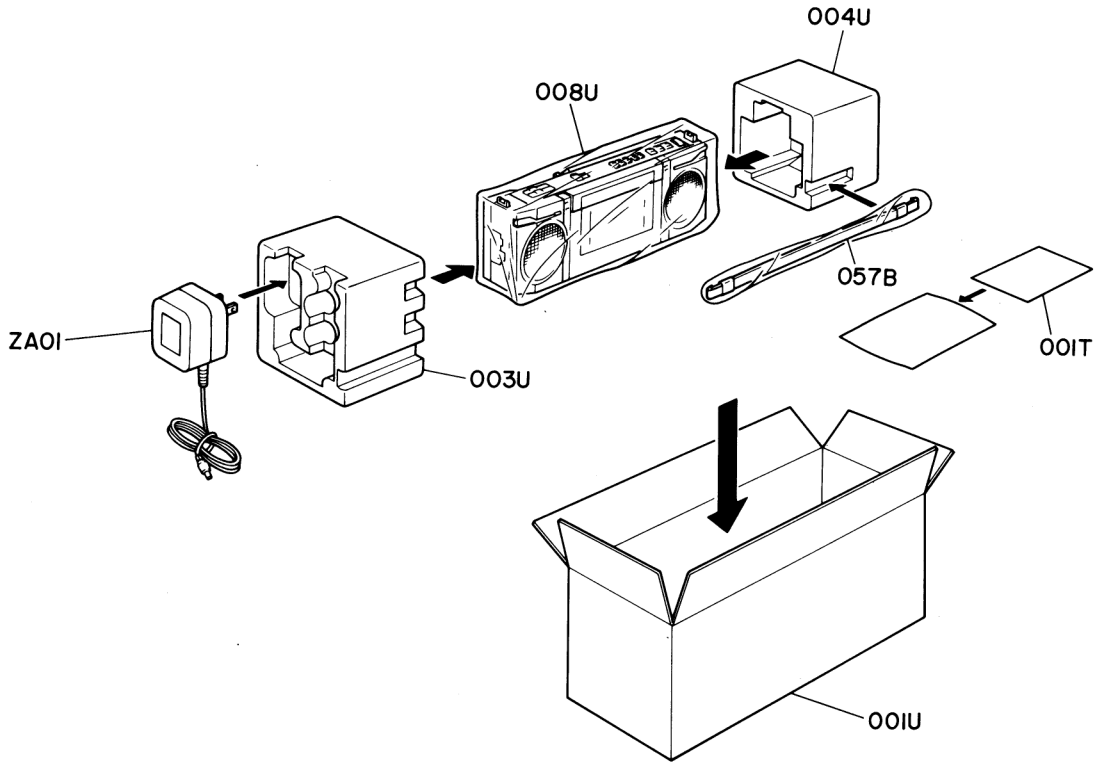


Parts List

PARTS NO.	STOCK NO.	DESCRIPTION	
003M	36662500	254T115200	Spring, Head Chassis
030M	36665700	254T354010	Lever, Stop
031M	36662900	254T115240	Spring, Stop Lever
032M	00489200	64000300R0	RG Ring, E
042M	36666000	254T354240	Lever, Play
043M	36663100	254T115260	Spring, Play Lever
045M	36666100	254T354250	Lever, FF
046M	36663200	254T115270	Spring, FF Lever
048M	36666200	254T354260	Lever, REW
049M	36663100	254T115260	Spring, REW Lever
050M	00488900	64001500R0	RG Ring, E
052M	36659300	254T002220	Arm, REC Lock
053M	00488900	64001500R0	RG Ring, E
055M	36661000	254T054200	Cam, REC Defend
056M	00489200	64000300R0	RG Ring, E
057M	36663300	254T115280	Spring, REC Defend Cam
060M	36659400	254T002230	Arm, RWD/REVS
061M	00489200	64000300R0	RG Ring, E
063M	36659500	254T002240	Arm, Cue REV
070M	36661100	254T054210	Lock Cam Ass'y
071M	36663400	254T115290	Spring, Lock Cam
072M	36663500	254T115300	Spring, Lock Cam
073M	00488900	64001500R0	RG Ring, E
080M	36661200	254T058200	Clutch Gear Ass'y
081M	36680600	59163202G0	Washer
082M	36660600	254T012210	Washer
085M	36661300	254T058210	Center Gear (A)
086M	36680600	59163202G0	Washer
087M	36661400	254T058220	Center Gear (B)
088M	36660600	254T012210	Washer
090M	36665200	254T273010	Flywheel Ass'y (R)
091M	36680400	59020402G0	Washer
092M	36680400	59020402G0	Washer
093M	00488900	64001500R0	RG Ring, E
094M	36665300	254T273020	Flywheel Ass'y (F)
096M	36664900	254T264200	Main Belt
100M	36662400	254T105220	Sub Chassis Ass'y
102M	36665600	254T352210	Reel Ass'y
103M	36659700	254T010200	Screw M1.7 x 2
104M	36663600	254T115310	Spring, Back Tension
106M	36664300	254T116220	Leaf Spring
107M	36659600	254T002250	Arm, Sensor
108M	36660500	254T012200	Washer
110M	36664400	254T116230	Leaf Spring
111M	36659700	254T010200	Screw
112M	36662200	254T058300	Direction SW Gear Ass'y
113M	36660500	254T012200	Washer
116M	36661500	254T058230	Transmission Gear (D)
117M	36680400	59020402G0	Washer
118M	36660500	254T012200	Washer
120M	36661600	254T058240	Transmission Gear (G)

PARTS NO.	STOCK NO.	DESCRIPTION	
121M	36660500	254T012200	Washer
123M	36661800	254T058260	Transmission Gear (E)
124M	36680400	59020402G0	Washer
125M	36660500	254T012200	Washer
127M	36661900	254T058270	Transmission Gear (A)
128M	36660500	254T012200	Washer
130M	36662000	254T058280	Transmission Gear (B)
131M	36660500	254T012200	Washer
133M	36662100	254T058290	Transmission Gear (C)
134M	36680400	59020402G0	Washer
135M	36660500	254T012200	Washer
137M	36661700	254T058250	Sensor Gear
138M	36660500	254T012200	Washer
140M	36664800	254T262210	Tension Pulley Ass'y
141M	36680600	59163202G0	Washer
142M	36660600	254T012210	Washer
150M	36663200	254T115270	Spring, FF/REW SW
153M	36663700	254T115320	Spring, Direction Gear Arm
155M	36663800	254T115330	Spring, Direction Lever
156M	36663900	254T115340	Spring, REC Safety
160M	36664500	254T164200	Adjuster
172M	36665000	254T270010	Button
173M	36665400	254T301050	Mark
175M	36665400	254T301050	Mark
176M	36665400	254T301050	Mark
181M	36659900	254T010220	Screw M2 x 7
183M	36660100	254T010240	Screw M1.4 x 3
190M	36683900	305H010290	Screw
196M	36683400	256T115010	Spring
S071	36633900	SM0101121R	Mini Switch Motor
S072	36685800	SM0102048R	Mini Switch FWD/Reverse
S073	36633900	SM0101121R	Mini Switch Motor
S074	36682600	SM0101129R	Mini Switch Direction

9. PACKING MATERIALS



Parts List

PARTS NO.	STOCK NO.	DESCRIPTION	
057B	36642800	251T156010	Strap Handle
001U	36668600	256T801010	Packing Case (Black)
001U	36683600	256T801020	Packing Case (Red)
003U	36643800	251T809010	Cushion (R)
004U	36643900	251T809020	Cushion (L)
008U	36681800	9012035010	Polyethy Bag
001T	46964000	256T851010	Users Manual

PARTS NO.	STOCK NO.	DESCRIPTION	
ZA01	36620000	AA12006090	AC Adaptor (UL)
ZA01	36682200	AA90006030	AC Adaptor (EU)

10. ELECTRICAL PARTS LIST

10-1. P100 Tuner/Main Circuit Board (Stock No. 36638000/ZZ254T1610)

PARTS NO.	STOCK NO.	DESCRIPTION			
			P100-CAPACITORS (All ceramic capacitors are chip)		
C101	46780500	DK46102300	Ceramic	1000pF	±10%
C102	46756900	DD45270300	Ceramic	27pF	±5%
C103	46755400	DD40050300	Ceramic	5pF	±0.25pF
C104	46755900	DD41100300	Ceramic	10pF	±0.5pF
C105	46756900	DD45270300	Ceramic	27pF	±5%
C106	46755200	DD40030300	Ceramic	3pF	±0.25pF
C107	46276500	EJ10505010	Elect	1μF	50V
C108	46796300	DK46153300	Ceramic	0.015μF	±10%
C109	46796300	DK46153300	Ceramic	0:015μF	±10%
C110	46796300	DK46153300	Ceramic	0.015μF	±10%
C111	46796300	DK46153300	Ceramic	0.015μF	±10%
C112	46796300	DK46153300	Ceramic	0.015μF	±10%
C113	46796300	DK46153300	Ceramic	0.015μF	±10%
C114	46796300	DK46153300	Ceramic	0.015μF	±10%
C115	46709800	EJ10700610	Elect	100μF	6.3V
C116	46843900	EJ47502510	Elect	4.7μF	25V
C117	46796300	DK46153300	Ceramic	0.015μF	±10%
C118	46842600	EJ33600610	Elect	33μF	6.3V
C119	46275600	EJ10601610	Elect	10μF	16V
C120	46778900	DK46221300	Ceramic	220pF	±10%
C121	46796300	DK46153300	Ceramic	0.015μF	±10%
C122	46796300	DK46153300	Ceramic	0.015μF	±10%
C123	46796300	DK46153300	Ceramic	0.015μF	±10%
C124	46796300	DK46153300	Ceramic	0.015μF	±10%
C125	46709800	EJ10700610	Elect	100μF	6.3V
C126	46275600	EJ10601610	Elect	10μF	16V
C130	46757100	DD45330300	Ceramic	33pF	±5%
C150	36620200	CP22400370	Variable	PVC-2LXT16L (FM20pF)	
C301	36620800	EJ33502510	Elect	3.3μF	25V
C302	46276500	EJ10505010	Elect	1μF	50V
C303	46709800	EJ10700610	Elect	100μF	6.3V
C304	46276500	EJ10505010	Elect	1μF	50V
C305	46796300	DK46153300	Ceramic	0.015μF	±10%
C306	46796300	DK46153300	Ceramic	0.015μF	±10%
C307	46276500	EJ10505010	Elect	1μF	50V
C308	46276500	EJ10505010	Elect	1μF	50V
C309	46854400	DK46183300	Ceramic	0.018μF	±10%
C310	46854400	DK46183300	Ceramic	0.018μF	±10%
C701	46780500	DK46102300	Ceramic	1000pF	±10%
C702	46780500	DK46102300	Ceramic	1000pF	±10%
C703	46276100	EJ10405010	Elect	0.1μF	50V
C704	46276100	EJ10405010	Elect	0.1μF	50V
C705	36620800	EJ33502510	Elect	3.3μF	25V
C706	36620800	EJ33502510	Elect	3.3μF	25V
C707	46842500	EJ22600610	Elect	22μF	6.3V
C708	46842500	EJ22600610	Elect	22μF	6.3V
C709	46842500	EJ22600610	Elect	22μF	6.3V
C710	46842500	EJ22600610	Elect	22μF	6.3V
C711	46709800	EJ10700610	Elect	100μF	6.3V
C712	46709800	EJ10700610	Elect	100μF	6.3V
C713	46843300	EJ47601010	Elect	47μF	10V
C714	46843300	EJ47601010	Elect	47μF	10V
C715	08400900	EA22701010	Elect	220μF	10V
C716	08400900	EA22701010	Elect	220μF	10V
C717	46709800	EJ10700610	Elect	100μF	6.3V
C718	46709800	EJ10700610	Elect	100μF	6.3V
C719	46709800	EJ10700610	Elect	100μF	6.3V
C720	46709800	EJ10700610	Elect	100μF	6.3V
C725	46709600	EJ47600610	Elect	47μF	6.3V
C726	46709600	EJ47600610	Elect	47μF	6.3V
CA01	46755200	DD40030300	Ceramic	3pF	±0.25pF
CA02	46755900	DD41100300	Ceramic	10pF	±0.5pF
CG01	46276500	EJ10505010	Elect	1μF	50V
CG02	46780500	DK46102300	Ceramic	1000pF	±10%
CG03	46778900	DK46221300	Ceramic	220pF	±10%
CG04	46276500	EJ10505010	Elect	1μF	50V
CG05	46276500	EJ10505010	Elect	1μF	50V
CG06	46275600	EJ10601610	Elect	10μF	16V
CG07	08400900	EA22701010	Elect	220μF	10V
CG08	46709600	EJ47600610	Elect	47μF	6.3V
			P100-RESISTORS (All Resistors are ±5% 1/8W Chip)		
R101	36628800	RI05101180	100Ω		
R102	36630400	RI05223180	22kΩ		
R103	36630100	RI05220180	22Ω		
R104	36631900	RI05474180	470kΩ		
R105	36630700	RI05331180	330Ω		
R109	36631500	RI05470180	47Ω		
R110	36632700	RI05822180	8.2kΩ		
R111	36630300	RI05222180	2.2kΩ		
R113	36630300	RI05222180	2.2kΩ		
R114	36632000	RI05561180	560Ω		
R115	36628300	RI05000180	0Ω		
R116	36631500	RI05470180	47Ω		

P100

PARTS NO.	STOCK NO.	DESCRIPTION	
R301	36628900	RI05102180	1kΩ
R302	36629000	RI05103180	10kΩ
R303	46634100	RA04720600	Trimming 4.7kΩ
R304	36630500	RI05224180	220kΩ
R305	36630800	RI05332180	3.3kΩ
R306	36630800	RI05332180	3.3kΩ
R307	36629300	RI05122180	1.2kΩ
R308	36629300	RI05122180	1.2kΩ
R701	36630700	RI05331180	330Ω
R702	36630700	RI05331180	330Ω
R703	36630700	RI05331180	330Ω
R704	36630700	RI05331180	330Ω
R705	36630400	RI05223180	22kΩ
R706	36630400	RI05223180	22kΩ
R707	36630400	RI05223180	22kΩ
R708	36630400	RI05223180	22kΩ
R709	36630400	RI05223180	22kΩ
R710	36630400	RI05223180	22kΩ
R711	36628400	RI05022180	2.2Ω
R712	36628400	RI05022180	2.2Ω
R713	36628400	RI05022180	2.2Ω
R714	36628400	RI05022180	2.2Ω
R715	36631500	RI05470180	47Ω
R716	36631500	RI05470180	47Ω
R717	36628300	RI05000180	0Ω
RG01	36630400	RI05223180	22kΩ
RG02	36630200	RI05221180	220Ω
RG03	36631700	RI05472180	4.7kΩ
RG04	36630400	RI05223180	22kΩ
RG05	36629100	RI05104180	100kΩ
RG06	36628900	RI05102180	1kΩ
RG07	36631200	RI05391180	390Ω
RG08	36630700	RI05331180	330Ω
RG09	36629000	RI05103180	10kΩ
RG10	36632300	RI05681180	680Ω
RG11	36630400	RI05223180	22kΩ
RG12	36630400	RI05223180	22kΩ
RG13	36631700	RI05472180	4.7kΩ
RG14	36631700	RI05472180	4.7kΩ
RG16	36628900	RI05102180	1kΩ
RG17	36630300	RI05222180	2.2kΩ
			P100-SEMICONDUCTORS
Q101	36622500	HC10097050	IC TA7358P
Q102	36624400	HX327141B0	Transistor 2SC2714(O) Chip
Q103	36621900	HC10048020	IC AN7224
Q104	36622000	HC10065050	IC TA7343P
Q701	36622100	HC10075060	IC UPC1177H
Q702	36622100	HC10075060	IC UPC1177H
QG01	36624500	HX410301S0	Transistor 2SD1030 S Chip
QG02	36624500	HX410301S0	Transistor 2SD1030 S Chip
QG03	36624600	HX413281R0	Transistor 2SD1328(R) Chip
QG04	36624600	HX413281R0	Transistor 2SD1328(R) Chip
QG05	36624300	HX324122A0	Transistor 2SC2412K(Q,R) Chip

PARTS NO.	STOCK NO.	DESCRIPTION	
D101	07299300	HD40001050	Varicap 1S2236
			P100-MISCELLANEOUS
F101	36621300	FF39800070	L.C. Filter
F102	36621100	FF11070150	Ceramic Filter
FA01	36621000	FF10045230	Ceramic Filter
J701	36635800	YJ01002050	Jack, Head Phone
J702	36636900	YJ06003370	Jack, Speaker Out
JG01	36635700	YJ01002030	Jack, Mixing Mic
JG02	36635800	YJ01002050	Jack, Aux
L101	36624900	LA70393010	Ant. Coil FM
L102	36626500	L070393030	OSC Coil FM
L103	36626100	LI70033200	I.F.T. FM
L104	36626200	LI70033300	I.F.T. FM
LA01	36625600	LF20700100	Ant. Coil AM
LA02	36626400	L070393020	OSC Coil AM
LA03	36626300	LI70033400	I.F.T. AM

10-2. PJ01 R/P Amp, Motor Drive Circuit Board (Stock No. 36638100/ZZ254T1630)

PARTS NO.	STOCK NO.	DESCRIPTION			
			PJ01-CAPACITORS (All ceramic capacitors are chip)		
CJ01	46780500	DK46102300	Ceramic	1000pF	±10%
CJ02	46780500	DK46102300	Ceramic	1000pF	±10%
CJ03	46758300	DD45101300	Ceramic	100pF	±5%
CJ04	46758300	DD45101300	Ceramic	100pF	±5%
CJ05	46795500	DK46103300	Ceramic	0.01μF	±10%
CJ06	46795500	DK46103300	Ceramic	0.01μF	±10%
CJ07	46842500	EJ22600610	Elect	22μF	6.3V
CJ08	46842500	EJ22600610	Elect	22μF	6.3V
CJ09	46796000	DK46472300	Ceramic	4700pF	±10%
CJ10	46796000	DK46472300	Ceramic	4700pF	±10%
CJ11	46275600	EJ10601610	Elect	10μF	16V
CJ12	46275600	EJ10601610	Elect	10μF	16V
CJ13	46794700	DK46222300	Ceramic	2200pF	±10%
CJ14	46794700	DK46222300	Ceramic	2200pF	±10%
CJ15	46779300	DK46331300	Ceramic	330pF	±10%
CJ16	46779300	DK46331300	Ceramic	330pF	±10%
CJ17	46276500	EJ10505010	Elect	1μF	50V
CJ18	46276500	EJ10505010	Elect	1μF	50V
CJ19	46842600	EJ33600610	Elect	33μF	6.3V
CJ20	08401100	EA47701010	Elect	470μF	10V
CJ21	08401100	EA47701010	Elect	470μF	10V
CJ23	46275600	EJ10601610	Elect	10μF	16V
CJ24	46275600	EJ10601610	Elect	10μF	16V
CJ25	46796600	DK46473200	Ceramic	0.047μF	±10%
CL01	46855100	DD45121300	Ceramic	120pF	±5%
CL02	46855100	DD45121300	Ceramic	120pF	±5%
CL03	00404000	DF15122550	Film	1200pF	±5%
CL04	46758300	DD45101300	Ceramic	100pF	±5%
CL05	46796000	DK46472300	Ceramic	4700pF	±10%
CL06	46796000	DK46472300	Ceramic	4700pF	±10%
CL07	46709800	EJ10700610	Elect	100μF	6.3V
CL08	46796600	DK46473200	Ceramic	0.047μF	±10%
CM01	46780500	DK46102300	Ceramic	1000pF	±10%
CM02	46843500	EJ10701010	Elect	100μF	10V
CM04	46795500	DK46103300	Ceramic	0.01μF	±10%
CM05	46276100	EJ10405010	Elect	0.1μF	50V
CM06	46276100	EJ10405010	Elect	0.1μF	50V
CM07	08401200	EA10801010	Elect	1000μF	10V
CM08	46275600	EJ10601610	Elect	10μF	16V
CM09	46276500	EJ10505010	Elect	1μF	50V
CM10	46843500	EJ10701010	Elect	100μF	10V
CM11	46842300	EJ10700410	Elect	100μF	4V
CM12	46842300	EJ10700410	Elect	100μF	4V

PARTS NO.	STOCK NO.	DESCRIPTION		
			PJ01-RESISTORS (All Resistors are ±5% 1/8W Chip)	
RJ01	36631800	RI05473180	47kΩ	
RJ02	36631800	RI05473180	47kΩ	
RJ03	36629700	RI05154180	150kΩ	
RJ04	36629700	RI05154180	150kΩ	
RJ05	36629600	RI05153180	15kΩ	
RJ06	36629600	RI05153180	15kΩ	
RJ07	36628800	RI05101180	100Ω	
RJ08	36628800	RI05101180	100Ω	
RJ09	36629700	RI05154180	150kΩ	
RJ10	36629700	RI05154180	150kΩ	
RJ12	36629500	RI05152180	1.5kΩ	
RJ13	36629600	RI05153180	15kΩ	
RJ14	36629600	RI05153180	15kΩ	
RJ15	36632300	RI05681180	680Ω	
RJ16	36632300	RI05681180	680Ω	
RJ18	36629500	RI05152180	1.5kΩ	
RJ19	36632300	RI05681180	680Ω	
RJ20	36631000	RI05335180	3.3MΩ	
RJ21	36630800	RI05332180	3.3kΩ	
RJ22	36630800	RI05332180	3.3kΩ	
RJ23	36630800	RI05332180	3.3kΩ	
RJ24	36630800	RI05332180	3.3kΩ	
RJ25	36630100	RI05220180	22Ω	
RJ26	36630100	RI05220180	22Ω	
RJ27	36628300	RI05000180	0Ω	
RJ28	36628300	RI05000180	0Ω	
RJ29	36628300	RI05000180	0Ω	
RJ30	36628300	RI05000180	0Ω	
RL01	36631400	RI05393180	39kΩ	
RL02	36631400	RI05393180	39kΩ	
RL04	36628700	RI05100180	10Ω	
RL05	36629400	RI05123180	12kΩ	
RL06	36627800	NK15470120	47Ω	1/2W
RM04	46633400	RA03310600	330Ω	Trimming
RM05	36629100	RI05104180	100kΩ	
RM06	36632100	RI05562180	5.6kΩ	
RM07	36629000	RI05103180	10kΩ	
RM08	36629000	RI05103180	10kΩ	
RM10	36632100	RI05562180	5.6kΩ	
RM11	36632100	RI05562180	5.6kΩ	
RM12	36629000	RI05103180	10kΩ	
RM13	36629000	RI05103180	10kΩ	
RM14	36628800	RI05101180	100Ω	
RM15	36629000	RI05103180	10kΩ	
RM16	36628900	RI05102180	1kΩ	
RM17	36630500	RI05224180	220kΩ	
RM18	36628900	RI05102180	1kΩ	
RM19	36628300	RI05000180	0Ω	
RM20	36628300	RI05000180	0Ω	

PJ01

PARTS NO.	STOCK NO.	DESCRIPTION		
		PJ01-SEMICONDUCTORS		
QJ01	46684400	HC10053050	IC	TA7658P R/P Amp
QL01	36624300	HX324122A0	Transistor	2SC2412K (Q,R) Chip
QM01	36622200	HC10076060	IC	UPC1470H
CM02	36622400	HC10084050	IC	TC9130P
QM03	36624300	HX324122A0	Transistor	2SC2412K (Q,R) Chip
QM04	36624300	HX324122A0	Transistor	2SC2412K (Q,R) Chip
QM05	36624300	HX324122A0	Transistor	2SC2412K (Q,R) Chip
QM06	36624300	HX324122A0	Transistor	2SC2412K (Q,R) Chip
DJ01	03110400	HD20001000	Diode	1S1555
DJ02	03110400	HD20001000	Diode	1S1555
DJ03	03110400	HD20001000	Diode	1S1555
DJ04	03110400	HD20001000	Diode	1S1555
DL01	36622900	HD30002020	Zener	MA1039M
DL02	03110400	HD20001000	Diode	1S1555
DM03	36622900	HD30002020	Zener	MA1039M
DM04	03110400	HD20001000	Diode	1S1555
DM05	03110400	HD20001000	Diode	1S1555
		PJ01-MISCELLANEOUS		
JM01	36636100	YJ04000840	Jack	EXT DC
LJ01	36625300	LC22260510	Choke Coil	
LJ02	36625300	LC22260510	Choke Coil	
LL01	36635200	TC10090020	OSC Transf.	
LM01	36625100	LC16820080	Choke Coil	
SJ01	36635000	SS08020200	Slide Switch	
SL01	36634300	SS02020740	Slide Switch	

10.3 PS01 Switch Control Circuit Board (Stock No. 36638200/ZZ254T1620)

PARTS NO.	STOCK NO.	DESCRIPTION			
			PS01-CAPACITORS (All ceramic capacitors are chip)		
CS01	46276500	EJ10505010	Elect	1μF	50V
CS02	46276500	EJ10505010	Elect	1μF	50V
CS03	46779900	DK46561300	Ceramic	560pF	±10%
CS04	46779900	DK46561300	Ceramic	560pF	±10%
CS05	46796600	DK46473200	Ceramic	0.047μF	±10%
CS06	46796600	DK46473200	Ceramic	0.047μF	±10%
CS07	46276500	EJ10505010	Elect	1μF	50V
CS08	46276500	EJ10505010	Elect	1μF	50V
CS11	46796600	DK46473200	Ceramic	0.047μF	±10%
CS12	46796600	DK46473200	Ceramic	0.047μF	±10%
CS13	46276500	EJ10505010	Elect	1μF	50V
CS14	46276500	EJ10505010	Elect	1μF	50V
CS15	46796600	DK46473200	Ceramic	0.047μF	±10%
CS16	46796600	DK46473200	Ceramic	0.047μF	±10%
CS17	46276100	EJ10405010	Elect	0.1μF	50V
CS18	46276100	EJ10405010	Elect	0.1μF	50V
CS19	46796600	DK46473200	Ceramic	0.047μF	±10%
CS20	46709800	EJ10700610	Elect	100μF	6.3V
CS21	46843500	EJ10701010	Elect	100μF	10V
CS22	46709800	EJ10700610	Elect	100μF	6.3V
CS23	46796500	DK46333300	Ceramic	0.033μF	±10%
CS24	46796500	DK46333300	Ceramic	0.033μF	±10%
CS25	46843500	EJ10701010	Elect	100μF	10V
CS26	46796600	DK46473200	Ceramic	0.047μF	±10%
CS27	46275600	EJ10601610	Elect	10μF	16V

PARTS NO.	STOCK NO.	DESCRIPTION	
		PS01-RESISTORS (All Resistor are ±5% 1/8W Chip)	
RS01	36629100	RI05104180	100kΩ
RS02	36629100	RI05104180	100kΩ
RS03	36630900	RI05333180	33kΩ
RS04	36630900	RI05333180	33kΩ
RS05	36630200	RI05221180	220Ω
RS06	36630200	RI05221180	220Ω
RS07	36630700	RI05331180	330Ω
RS08	36630700	RI05331180	330Ω
RS09	36632000	RI05561180	560Ω
RS10	36632000	RI05561180	560Ω
RS11	36629200	RI05105180	1MΩ
RS12	36629200	RI05105180	1MΩ
RS13	36628900	RI05102180	1kΩ
RS14	36629800	RI05182180	1.8kΩ
RS15	36632500	RI05683180	68kΩ
RS16	36632500	RI05683180	68kΩ
RS17	36628900	RI05102180	1kΩ
RS18	36628900	RI05102180	1kΩ
RS19	36630300	RI05222180	2.2kΩ
RS20	36630300	RI05222180	2.2kΩ

— To be continued —

PS01

PARTS NO.	STOCK NO.	DESCRIPTION	
RS21	36633000	RS02030150	20kΩ (B) Variable
RS22	36633100	RS02030160	20kΩ (A) Variable
RS23	36630600	RI05272180	2.7kΩ
RS24	36629800	RI05182180	1.8kΩ
RS25	36631700	RI05472180	4.7kΩ
RS26	36631700	RI05472180	4.7kΩ
RS27	36631800	RI05473180	47kΩ
RS28	36631800	RI05473180	47kΩ
RS29	36629000	RI05103180	10kΩ
RS30	36629000	RI05103180	10kΩ
RS31	36631300	RI05392180	3.9kΩ
RS32	36631200	RI05391180	390Ω
RS33	36628900	RI05102180	1kΩ
RS34	36628900	RI05102180	1kΩ
RS35	36630200	RI05221180	220Ω
RS36	36631200	RI05391180	390Ω
RS38	36628900	RI05102180	1kΩ
RS39	36631500	RI05470180	47Ω
RS40	36628500	RI05047180	4.7Ω
RS41	36628300	RI05000180	0Ω
RS42	36628300	RI05000180	0Ω
RS43	36628300	RI05000180	0Ω
			PS01-SEMICONDUCTORS
QS01	36624500	HX410301S0	Transistor 2SD1030 S Chip
QS02	36624500	HX410301S0	Transistor 2SD1030 S Chip
QS03	36624500	HX410301S0	Transistor 2SD1030 S Chip
QS04	36624500	HX410301S0	Transistor 2SD1030 S Chip
QS05	36624300	HX324122A0	Transistor 2SC2412K (Q,R) Chip
DS01	03163900	HD30064060	Zener RD6.2E
			PS01-MISCELLANEOUS
JS01	36637000	YJ06003380	Jack (5P)
JS02	36637000	YJ06003380	Jack (5P)
SS01	36634300	SS02020740	Slide Switch Tape
SS02	36634500	SS02030230	Slide Switch Band
SS03	36634900	SS06020540	Slide Switch Function
SS04	36634300	SS02020740	Slide Switch Supper Bass

10-4. PS02 Power Indicator Circuit Board

PARTS NO.	STOCK NO.	DESCRIPTION	
RS37	36628900	RI05102180	**PS02-RESISTOR** 1kΩ ±5% 1/8W Chip
			PS02-SEMICONDUCTORS
DS02	36623400	HI10019320	L.E.D. GL-9PR34 FM
DS03	36623500	HI10020320	L.E.D. GL-9PG34

10-5. PM01 Forward-Reverse/Ind. Circuit Board

PARTS NO.	STOCK NO.	DESCRIPTION	
RM09	36630200	RI05221180	**PM01-RESISTOR** 220Ω ±5% 1/8W Chip
			PM01-SEMICONDUCTORS
DM01	36623600	HI10021320	L.E.D. GL-9HY34 Forward
DM02	36623600	HI10021320	L.E.D. GL-9HY34 Reverse
			PM01-MISCELLANEOUS
SM01	46133300	SP01010570	Push Switch

10.6 PJ02 Forward-Reverse Head Circuit Board

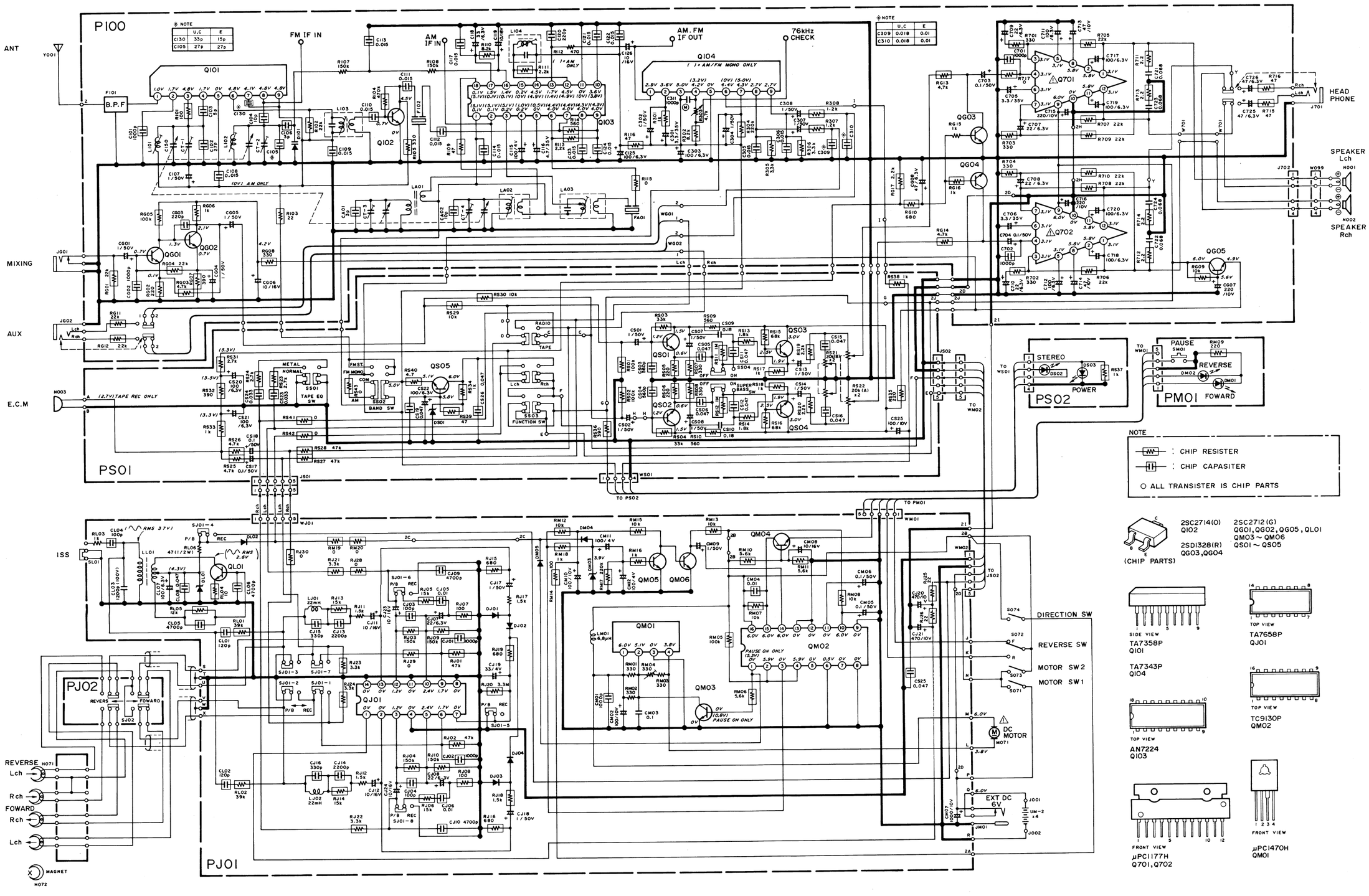
PARTS NO.	STOCK NO.	DESCRIPTION	
SJ02	36634700	SS04020580	**PJ02-MISCELLANEOUS** Slide Switch

11. SCHEMATIC DIAGRAM

* Design and specifications subject to change without notice for improvement.
* La présention et les spécifications sont susceptibles d'être modifiées ans préavis par suites d'améliorations éventuelles.
* Änderungen, die dem technischen Forschritt dienen, bleiben vorbehalten.

⚠ is Safety Part: Use only replacement parts recommended by the manufacturer.

Q101 HC10097050 TA7358P	Q102 HX32714180 2SC2714(O)	Q103 HC10048020 AN7224	Q104 HC10065050 TA7343P	Q701,Q702 HC10075060 μPC1177H	QG01,QG02,QG05,QL01 QM03 ~ QM06 QS01 ~ QS05 HX32712IA0 2SC2712(G)	QG03,QG04 HX41328IR0 2SDI328(R)	QJ01 HC10053050 TA7658P	QM01 HC10076060 μPC1470H	QM02 HC10084050 TC9130P	DI01 HD40001050 IS2236	DJ01 ~ DJ04 DL02 DM04,DM05 HD20001000 IS1555 etc....	DL01,DM03 HD30002020 MA1039M	DM01,DM02 HI10021320 GL-9HY34	DS01 HD30064060 RD6.2E	DS02 HI10019320 GL-9PR34	DS03 HI10020320 GL-9PG34



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